Name:

at1113exam: Expand, factor, and solve quadratics (v325)

1. Solve the equation.

$$(4x + 7)(2x + 5) \;=\; 0$$

2. Expand the following expression into standard form.

$$(5x - 2)(4x - 7)$$

3. Expand the following expression into standard form.

$$(2x + 9)(2x - 9)$$

4. Expand the following expression into standard form.

$$(3x - 2)^2$$

5. Factor the expression.

$$16x^2 - 9$$

6. Solve the equation with factoring by grouping.

$$18x^2 + 15x + 24x + 20 \;=\; 0$$

7. Solve the equation.

$$5x^2 - 9x - 77 \;=\; 3x^2 - 2x - 5$$

8. Factor the expression.

$$x^2 + 11x + 24$$